County Borough of Wolverhampton.

REPORT

UPON THE

Health of Wolverhampton

FOR THE YEAR 1917

BY

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Medical Officer of Health.

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MEDICAL OFFICER'S REPORT,

1917.

Prevalence and Prevention of Infectious Disease.

Table 3 gives the weekly number of cases of certain diseases certified by Medical Men under the Infectious Diseases Notification Act, and of Phthisis under the Tuberculosis Regulations. Any certificate detected as erroneous before the close of the week is not entered.

Table 1 gives the total number of cases about which enquiries were made and which were recorded; no erroneous cases are entered in this Table.

Measles.—Our mean annual deaths from Measles since 1884 are as follows:—

	1884-90	1891-1900	1901-10	1911-15	1916	1917
Deaths	50·3	35·4	40 0	59·4	51	16

There was a constant and considerable prevalence all through the first six months. Bingley Street Infants' Department was closed from March 19th to April 16th; Monmore Green and Walsall Street Infants' Departments were closed from June 5th to the 30th; and St. Luke's Infants' Department from June 24th to July 26th. The cases rapidly fell away in July, and for the rest of the year we were practically free from Measles. Apart from cases heard of through the schools, 784 cases were notified during the year; 317 East (240 by doctors, 77 by relatives), 367 West (358 by doctors, 109 by relatives). Of the 598 cases notified by doctors 172 were notified as Rotheln, of the 186 notified by relatives only 5 were Rotheln.

Scarlet Fever.—We began recording our cases in 1884, but as we have only had notifications since 1890 (inclusive) the returns before that year are less complete than those since. The death records in my posses-

sion go back to 1870; the following are the average annual deaths since that year, and cases since 1884:—

	1870-80	1881-90	1891-1900	1901-10	1911-15	1916	1917
Deaths	64·5	25·5	21·1	13·0	4·2	3	5
Cases	—	212·7	465·1	425·6	278·6	136	275

Our singular freedom from Scarlet Fever continued until about the middle of September, when there was a sudden great increase in the number of cases reported, especially in the West; a number of desquamating cases were found. The cases in the hospital, which had been averaging about 7, rose to 37 by the end of September, to 70 in October, and to 80 in December. We were in great straits owing to the difficulty in obtaining staff, but at the close of the year we were fairly well able to cope with the outbreak, although its severity was undiminished. The type was very severe.

The following Table gives quarterly particulars as to the cases in the two Sub-districts. The deaths are those of the cases reported in each quarter, and sometimes occur later; except in Table No. 2, they do not necessarily correspond to the deaths in the Mortality Tables, which are those registered in each quarter:—

Quarters.			1st.	2nd.	3rd.	4th.	Year.
EAST ..	Total	Cases	5	5	17	73	100
		Deaths	..	..	..	2	2
	Hospital	Cases	3	4	17	62	86
		Deaths	..	..	..	2	2
	At Home	Cases	2	1	..	11	14
		Deaths	..	..	..	..	..
WEST ...	Total	Cases	7	9	43	116	175
		Deaths	..	..	2	1	3
	Hospital	Cases	4	7	42	95	148
		Deaths	..	..	2	1	3
	At Home	Cases	3	2	1	21	27
		Deaths	..	..	..	..	..

The East mortality per case is 2·0 per cent. ; the West 1·7 per cent.

The case mortality in the Hospital is 2·14 per cent.

The following is the summary of the apparent effects of removal and home care on the spread of the infection in the households attacked during the year. No account is taken of houses where there is no susceptible child after the first case attacked ; children who have already had Scarlet Fever being counted as insusceptible, 'children' includes all under 18 years of age. Hospital removal was effected in 156 houses ; after the first removals there remained in these houses 416 children. In 141 of these houses there was no recurrence after removal, 347 children escaping. In 15 houses there was recurrence, 22 children being attacked, 7 of these were taken ill within three days of the previous removal, and probably infected before it, and 3 were more than three weeks after, and probably infected otherwise. In these 15 houses, 25 children still escaped after final Hospital removal.

Cases were treated at home with reasonable facility for isolation in 14 houses ; in three of these the case was too doubtful to record ; in the other 11 houses there were 14 children after the primary cases, only one of these contracted Scarlet Fever, and that was two days after the initial case, and therefore probably infected before isolation was begun.

The following tabular statement shows the results at a glance :—

	Hospital Removal.	Home Isolation.
Total houses	156	11
Cases recurred in	15	1
Number of children after primary cases ..	416	14
Number subsequently attacked	22 or 5·3%	1 or 7·1%
Number possibly due to failure	12 or 2·9%	0 or 0%
Number of children escaping	394 or 94·7%	13 or 92·9%

The following is the total for the twenty-four years, 1894-1917 :—

	Hospital Removal.	Home Isolation.
Total houses	4,459	516
Cases recurred in	424	154
Number of children after primary cases ..	11,419	963
Number of these attacked	529 or 4·6%	207 or 21·5%
Number possibly due to failure	267 or 2·3%	140 or 14·5%
Number of children escaping	10,890 or 95·4%	756 or 78·5%

A correction which must be made against the Hospital Statistics is that due to what are called "return cases," that is, cases presumed to be infected by patients discharged from Hospital; this year there was possibly 1 such case. During the past 24 years we have had a total of 355 return cases, these with the 267 primary failures give 622 re-infections in 11,419 children after Hospital care, or 5·4%, compared with 14·5% for home isolation.

Diphtheria.—We were comparatively free from Diphtheria during the year; in the East there were 18 cases, 16 were removed to the General Hospital, 2 of these were fatal; of the 2 cases kept at home 1 was fatal. In the West there were 39 cases, 28 were treated in Hospital (~~9~~ 26 in the General), 4 of these were fatal.

Enteric Fever.—We had no case.

Cerebro Spinal Meningitis.—One case was reported at the end of October, was removed to the Union Infirmary, and died there.

Tuberculosis.—254 new cases of Pulmonary Tuberculosis were entered in our register during the year; 48 of these had died before July, 1918; they were reported as follows:—Private practitioners 91; Hospital 11; Union Infirmary 16; School Medical Officer 5; Tuberculosis Officers 108; Sanatoria 8; other sources 15. Besides the cases reported by the Tuberculosis Officers, 54 others were referred to them.

Diarrhœa.—There was no epidemic.

BOROUGH HOSPITAL.

There were 13 cases of Scarlet Fever in the Borough Hospital at the close of last year; the quarterly numbers dealt with during this year have been as follows:—

Quarters.	Remaining in from previous Quarter.	Admitted.	Total Discharged	Died.	Average number of days in of the cases admitted.	Average daily number of Patients in Hospital.
First ..	13	13*a*	19	..	37·9	6·9
Second..	7	15*b*	16	..	43·4	6·5
Third ..	6	60*c*	18	1	40·2	13·8
Fourth	48	161	143	4	38·2	69·9
Year ..	13	249	196	5	39·0	24·3

(*a*) 1 case from Stourbridge and 1 from Penn.
(*b*) 1 case from Stourbridge, 2 from Tettenhall, and 1 from the Union Infirmary.
(*c*) 1 case from Short Heath.

Leaving 66 cases in at the close of the year.

The following Table gives the proportion of cases without definite signs of Scarlet Fever when seen after admission, and the results:

Quarters.	Admissions.	Indefinite when admitted.			
		Total.	Apparently not had Scarlet Fever.		
			Total.	Caught Scarlet Fever	Died.
First ..	13	4	4	..	..
Second ..	15	2	1	1	..
Third ..	60	3	1	..	..
Fourth ..	161	19	3	..	..
Year ..	249	28	9	1	..

Return Cases.—There were only two instances during the year out of the 196 cases discharged from the Hospital to residences in the borough in which further cases occurred. A child when admitted was found

to have Chicken Pox, but there was no signs of Scarlet Fever; after three weeks, as there was no desquamation, the child was discharged, 29 days after the return home a case of Scarlet Fever occurred. This could hardly be attributed to the child from the Hospital. A child was detained for Albuminurea, was 46 days in, 51 ill when discharged; 24 days later another case occurred, 2 other children were unaffected; this infection may have been from the Hospital case, but it is very doubtful.

VITAL STATISTICS.

Table No. 9 gives the comparison with the previous 36 years. The gravest item is the diminished birth rate; the decline in the last decade has been very grave; but this year's sudden and extraordinary drop exceeds all anticipation. It is to be hoped that it is mainly due to temporary war conditions. Table No. 10 shows that the drop in the West is greater than in the East. In all other respects the figures are good, the death rate is the lowest on record, so is the Zymotic death rate, 0·8, only half the average. The infant death rate is also the lowest on record, and is a really fairly low rate for a district like ours under present conditions. The effect the infant death rate has on the general death rate is very well shown in Table No. 9, note the rates in the previous minimum year, 1912. All the above remarks apply to each Sub-district (see Table No. 10), with the one exception that in 1912 the West general death rate is 0·2 lower than this year's.

To see the significance of this year's returns compare them with the decade 1891—1900 The general death rate is 7·9 lower, that means a saving of 758 lives on our present population. The birth rate is 12·9 lower, that means 1238 fewer births on our present population. The natural increase (excess of births over deaths) this year is only 737; had it been in proportion to the 1,111 increase in the decade *it would have been 480 more.* Our infantile death rate is only 82, or 113 less than in the decade; this means 226 lives of infants saved this year as compared with the decade.

As regards causes of death, the following are the main factors, with, in brackets, the previous ten years' average Measles 16 (55 0). Scarlet Fever 5 (6·9). Whooping Cough 18 (19·1). Diphtheria 7 (14·8). Enteric Fever 0 (3·2). Diarrhœa 32 (58 3). Phthisis 101 (98·2). Respiratory Diseases 295 (303 9) None of these need any comment. The age periods are: 65 years and upwards 429 (393·6). Under 1 year 165 (303·0). From 1—5 years 115 (170·9). These three returns are excellent, the last two because of the great drop; the first because it indicates that a larger proportion of the population reach advanced years.

Tables Nos. 6 and 10 give the comparisons between the Sub-districts. The following death rates are instructive :—over 65 years E. 4·1; W. 4·7. From 1—5 years E. 1·85; W. 0·79. The Infantile rates, deaths under 1 year per 1000 births are, E. 100, W. 67. The death rates from Phthisis, E. 1·39, W. 0·84; Respiratory Diseases, E. 3·71, W. 2·69. These figures as contrasting the poorer and more overcrowded East district with the West need no comment.

Sanitary Work done in the Borough

Our subordinate staff is about 50% of our pre war strength in numbers, and about 30% in experience and efficiency. I can therefore only repeat my last year's statement, that ordinary routine work has to be almost completely neglected, only the most urgent matters being dealt with. Fortunately until the outbreak of Scarlet Fever in the latter portion of the year, we have had an extraordinary remission of Infectious Diseases needing enquiry, see second entry in Mr. Peers' Table at the end of this report, and this has greatly relieved us. Even where notices have been served, the lack of materials and labour has made it very difficult to get them complied with. Our condition as regards bad and insufficient housing is getting steadily worse; the older, worst class of property is deteriorating, and our notices on such as regards cleanliness and maintenance are grievously missed; and no new houses are being built. We hear of cases of overcrowding, and of the use of one house for two or more families even more frequently than we did, and when notices are served they are nega-

tived through lack of accommodation. The evil of houses quite unfit for the purpose being let in lodgings is on the increase, and this particular work of Registering and Inspecting such houses has to be in abeyance.

The last Table, which represents Mr. Peers' report, is serious reading. The record is really wonderful considering our staff, but the Sanitary Improvements are less than one half of the average.

Our Infant Welfare work is at present the most satisfactory one to report on. We opened a third Clinic at the beginning of March. In July we appointed two Health Visitors, raising our Staff to three. In December we appointed a fourth, so that we commenced the new year with a complete staff of Inspector of Midwives and four Health Visitors. We need advances in the direction of pre-natal work, and the dealing with children under school age; but we are feeling our way, and the value of the work already being done is very great.

Infant Consultations.

Dr. Elizabeth C. McLaren's Report

This year was marked by the opening of the Clinic in Lower Stafford Street—a centre which promises to become one of the best attended of the Clinics. The period covering the reign of the queues shows a drop in the attendance, due to circumstances over which the mothers had no control, but otherwise, attendance has been satisfactory and fairly regular.

	St. Paul's.	St. James'	Lr. Stafford St.
No. on Books ...	1446 ...	1370 ...	464
New Cases, 1917 ...	190 ...	188 ...	199
Attendances ...	1493 ...	1329 ...	957
Maximum attendance	175 ...	149 ...	143
Minimum ,,	71 ...	61 ...	39
No. Clinics ...	48 ...	50 ...	42
Average attendance	125·3 ...	106·6 ...	82·66

Report of the Inspector of Midwives.

(Year ending December, 1917.)

No. of Midwives on Register	32
No. of visits to Midwives	662
No. of visits to Patients, etc. (this includes visits to babies and children under school age)	423

Notifications received :—

(*a*) Sending for Medical help	154
(*b*) Still-births	39
(*c*) Death of child before the attendance of Medical Practitioner	1
(*d*) Ophthalmia Neonatorum	22
(*e*) Preparation of body for burial	4

There has been no fatal case of Puerperal Fever this year in the Midwives' practice. One very slight case was notified, but the patient was ill only a few days.

The visits paid by the Health Visitors :—

Total number of visits paid to Babies...	5317
No. of Primary visits paid under Notification of Births Act...	1240
No. of "Special" cases on the books	96
No. of visits to these	288
No. of cases of Ophthalmia Neonatorum	22
No. of visits to these	309

Of the 22 cases of Ophthalmia Neonatorum reported, 21 completely recovered ; one became quite blind owing to the mother's neglect—she was prosecuted on this charge. For the first 4½ months of the year we were working with one Health Visitor and a temporary help. Then for 2 months we only had one Health Visitor. In July two Health Visitors were appointed. The work and visiting was necessarily erratic during the early months. In December a fourth Health Visitor was appointed, completing our Staff.

MAUD CARTER, M.I.H.,
Certified Midwife.
Certificated Medical and Surgical Nurse.

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,, 4.—Weekly Meterological Returns.

,, 6.—Quarterly Births and Deaths in the Sub-Districts and Borough.

,, 7.—Deaths in the Sub-districts during the year, classified by Age and Cause.

,, 7b.—Deaths in the Borough ,, ,, ,, ,,

,, 9.—Statistics for the Borough for 37 years (includes Table I, L.G.B.)

,, 10.—Statistics for the Sub-Districts for 34 years.

Several Tables are omitted.

Table No. 1.

Cases of Infectious Diseases recorded in 1917.

		East Sub-District. Population, 36,828.					West Sub-District. Population, 59,407.					Borough. Population, 96,048.					Totals.			Rate per 10,000 of Population.		
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Year	East Sub-District	West Sub-District	Borough	East Sub-District	West Sub-District	Borough
Small Pox ..	Under 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	5 years and upwards	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..						
Scarlet Fever	Under 5 years ..	..	..	1	9	10	2	1	5	15	23	2	1	6	24	33	100	175	275	27·2	29·5	28·6
	5 years and upwards	5	5	16	64	90	5	8	38	101	152	10	13	54	165	242						
Diphtheria ..	Under 5 years ..	1	3	1	3	8	4	2	1	3	10	5	5	2	6	18	18	39	57	4·9	6·6	5·9
	5 years and upwards	1	3	1	5	10	9	6	6	8	29	10	9	7	13	39						
Enteric Fever	Under 5 years ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	5 years and upwards	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..						

Table No. 3.

WEEKLY RETURNS under the Infectious Diseases Notification Act, &c.

1917. Week ending.	Measles.	Scarlet Fever.	Diphtheria	Enteric Fever.	Puerperal Fever.	Phthisis.	Ophthalmia.	Cerebro-Spinal Meningitis	Acute Polio-myelitis.
January 6th..	21	5	1	..	..	3	..	..	..
,, 13th..	21	5	2	..	..	..	1	..	..
,, 20th..	14	2	..	..	..	5	2	..	..
,, 27th..	9	..	..	..	..	5	..	..	..
February 3rd..	9	1	2	..	..	7	2	..	..
,, 10th..	10	5	..	..	..	3	..	..	..
,, 17th..	11	2	..	..	..	3	..	..	..
,, 24th..	9	3	3	..	..	2	..	..	..
March 3rd..	24	2	2	..	..	10	..	..	..
,, 10th..	47	5	2	..	..	3	..	..	..
,, 17th..	18	1	..	..	..	6	..	..	..
,, 24th..	25	3	1	..	..	3	..	..	..
,, 31st..	50	1	2	..	..	1	1	..	..
April 7th..	29	..	2	..	..	5	1	..	..
,, 14th..	30	2	..	..	..	6	..	..	..
,, 21st..	36	1	..	..	..	3	..	..	..
,, 28th..	29	..	2	..	..	3	..	..	..
May 5th..	31	1	1	..	..	9	1	..	..
,, 12th..	22	2	3	..	..	7	1	..	..
,, 19th..	15	3	..	..	..	7	1	..	..
,, 26th..	25	1	..	..	..	4	1	..	..
June 2nd..	22	..	2	..	..	6	..	..	..
,, 9th..	34	1	2	..	..	10	..	..	..
,, 16th..	28	..	1	..	..	9	..	..	..
,, 23rd..	23	3	1	..	..	1	..	..	..
, 30th..	27	..	..	..	..	5	2	..	..
July 7th..	15	1	1	..	..	3	1	..	..
,, 14th..	22	2	2	..	..	3	..	..	..
,, 21st..	18	1	..	..	..	6	..	..	..
,, 28th..	25	2	1	..	..	3	..	..	..
August 4th..	12	..	..	..	..	5	..	..	..
,, 11th..	24	1	1	..	..	5	..	..	..
,, 18th..	10	4	..	..	..	4	..	..	..
,, 25th..	11	3	..	..	..	5	..	..	..
September 1st..	7	1	1	..	..	3	1	..	..
,, 8th..	8	8	..	..	..	3	1	..	..
,, 15th..	3	8	..	..	1	2	1	..	..
,, 22nd..	4	14	1	..	..	8	2	..	..
,, 29th..	2	17	1	..	..	2	..	..	..
October 6th..	4	23	2	1	..	1	2	..	..
,, 13th..	1	14	3	..	..	1	1	..	..
,, 20th..	1	11	1	..	..	5	..	..	..
,, 27th..	..	17	1	..	..	3	..	1	..
November 3rd..	1	17	3	..	..	3	1	..	..
,, 10th..	1	5	4	..	..	2	..	..	..
,, 17th..	2	13	3	..	..	4	..	..	..
,, 24th..	..	23	1	1	..	5	..	..	..
December 1st..	1	25	1	..	..	3	..	..	..
,, 8th..	..	11	..	..	..	5	..	..	..
,, 15th..	..	11	..	..	..	2	1	..	..
,, 22nd..	1	9	..	..	..	6	..	..	..
,, 29th..	..	14	..	..	..	..	1	..	..
YEAR ..	792	304	56	2	1	218	25	1	..

This Table, 3, does not tally with Tables 1 and 2, these including a few cases not reported by doctors, and Table 3 including some cases which ultimately proved incorrect.

Table No. 4.

Weekly Meteorological Report, from observations taken at 9 a.m. daily.

Week ending.	Barometer Reduced to 32° and Sea Level.		Humidity.	Temperature.					Rain.	Wind.
							Earth.			
	Mean.	Range		Max.	Min.	Mean.	1 ft.	4 ft.		Prevailing Directions.
1917	in.	in.	0-100	°	°	°	°	°	in.	
January 6th	30·085	·372	91	53·5	33·0	43·9	42·0	43·5	·55	NNW
,, 13th	29·623	1·248	95	41·8	26·0	33·8	39·2	43·9	1·08	NW, SW
,, 20th	29·911	·656	94	35·2	24·0	30·6	37·3	43·1	·25	NNW, NNE
,, 27th	30·213	·436	*	32·5	24·0	28·5	36·6	42·1	..	E, SE
February 3rd	29·931	·126	*	36·2	17·5	28·2	35·2	41·0	·11	E, NE
,, 10th	30·258	·595	*	35·2	9·2	24·0	34·5	40·7	..	NW, NE
,, 17th	30·148	·373	93	42·0	24·0	31·7	34·2	40·3	·17	NE, SE
,, 24th	30·082	·498	99	48·8	30·1	37·1	34·8	39·9	·70	S
March 3rd	30·194	·554	92	47·5	28·2	38·5	38·6	40·2	·12	W
,, 10th	29·525	·480	*	45·8	17·8	30·4	36·8	40·4	·98	SE
,, 17th	29·958	1·014	88	55·2	31·0	39·9	38·3	40·4	·30	SW
,, 24th	30·054	·833	85	51·5	24·2	35·4	40·1	41·3	·25	NW
,, 31st	29·684	·911	80	51·2	24·8	37·0	39·8	41·4	·20	NW, NE
April 7th	29·558	·853	84	49·0	24·5	34·5	40·0	41·6	·70	SW, NW
,, 14th	29·570	·506	83	48·2	26·8	35·2	40·4	41·9	·53	NW, W
,, 21st	30·035	·648	79	53.0	30·0	41·6	42·7	42·0	·28	W, SW.
,, 28th	30·104	·441	83	60·0	34·5	45·9	46·8	43·3	..	N
May 5th	30·141	·395	67	73·5	39·0	51·6	48·3	44·4	..	NW, E
,, 12th	30·011	·376	78	71·2	32·2	48·8	50·6	46·0	·88	E
,, 19th	29·897	·539	82	70 5	40·5	51·3	52.5	47·4	·49	NW, NE
,, 26th	29·940	·519	80	76·9	49·5	59·0	54·2	48·2	·67	SE, SW
June 2nd	29·910	·132	78	75·2	46·8	55·9	56·8	49·8	1·40	NW, S
,, 9th	30·117	·240	75	72·2	45·0	56·6	56·0	51·0	·56	SW
,, 16th	30·110	·272	67	72·2	48·0	59·9	60·3	52·1	..	E, SW
,, 23rd	29·819	·438	79	80·0	43·8	56·6	61·7	53·5	·72	NW, SW
,, 30th	30·026	·461	80	64·5	42·0	52·6	58·1	54·0	1·30	W, NE
July 7th	30·230	·312	72	64·2	40·0	53·1	59·1	53·8	..	E
,, 14th	30·021	·474	72	67·2	46·5	56·4	60·1	54·3	·03	SE
,, 21st	29·942	·542	79	79·0	50·0	58·6	61·2	55·1	1·66	SW
,, 28th	30·096	·273	73	68·2	54·1	60·3	63·1	56·0	·55	SW
August 4th	29·886	·278	86	64·2	48·7	55·0	60·5	56·4	1·23	N, NW
,, 11th	29·736	·542	86	64·8	53·5	57·3	60·4	56·2	1·72	SW
,, 18th	29·718	·463	79	64·7	52·0	57·4	60·8	56·3	·88	SW
,, 25th	29·784	·592	74	65·5	50·0	57·0	60·2	56·4	·45	S
Septem. 1st	29·608	·572	86	62·8	46·5	54·5	58·3	56·3	2·39	SW
,, 8th	29·983	·319	84	65·0	48·2	55·3	57·8	55·9	·02	SW
,, 15th	30·081	·289	86	65·0	47·0	56·6	59·0	55·6	·14	SW
,, 22nd	29·971	·495	91	64·2	42·0	53·8	58·2	56·0	1·21	SW
,, 29th	30·102	·587	89	64·8	42·8	54·6	56·2	55·6	·11	SW
October 6th	29·917	·889	89	62·8	38·2	50·6	54·7	55·0	1·35	SW
,, 13th	29·504	·920	88	52·8	32·2	42·9	50·2	53·9	·99	SW
,, 20th	29·928	·691	89	59·2	30·8	45·1	47·9	52·1	·12	SW, NW
,, 27th	29·814	·646	85	55·1	33·0	43·0	47·6	51·2	·81	SW, NW
Novem. 3rd	29·856	·799	90	52·1	28·8	43·4	46·3	50·0	·48	SW, SE
,, 10th	29·732	·960	86	53·0	35·8	44·0	46·4	49·5	·85	W
,, 17th	30·331	·456	96	49·2	31·8	41·3	44·4	48·9	·01	N,W
,, 24th	30·297	·590	88	56·2	42·0	49·3	46·4	48·2	·25	NW, SW
Decem. 1st	29·967	·700	83	57·0	27·9	46·5	46·2	48·2	·56	N,W
,, 8th	30·245	·491	88	52·0	26·0	36·8	43·0	47·7	·25	SW
,, 15th	30·242	·755	*	49·0	27·0	38·6	40·9	46·7	·12	SW
,, 22nd	30·115	·934	*	37·0	24·0	30·1	38·9	45·6	·22	N, E
,, 29th	30·307	·235	*	47·5	24·0	34·3	37·4	44·4	·29	N, E

Total rainfall 28·93 inches.

* Wet bulb frozen.

Table No. 6.—Quarterly Births and Deaths during 1917.

		East Sub-District. 36,828.					West Sub-District, 59,407.					Borough, 96,048.				
	Quarters	1st	2nd	3rd	4th	year	1st	2nd	3rd	4th	year	1st	2nd	3rd	4th	year
BIRTHS.	Males	135	123	122	97	477	146	157	150	121	574	281	280	272	218	1051
	Females	122	117	103	101	443	136	141	121	117	515	258	258	224	218	958
	Total	257	240	225	198	920	282	298	271	238	1089	539	538	496	436	2009
	Rate	28·0	26·2	24·5	21·6	25·1	19·1	20·1	18·3	16·1	18·4	22·5	22·5	20·7	18·2	21·0
DEATHS.	Males	103	91	69	70	333	104	100	51	73	328	207	191	120	143	661
	Females	92	68	48	45	253	129	86	64	79	358	221	154	112	124	611
	Total	195	159	117	115	586	233	186	115	152	686	428	345	232	267	1272
	Rate	21·2	17·3	12·7	12·5	16·0	15·7	12·6	7·8	10·3	11·6	17·9	14·4	9·7	11·2	13·3
	65 years and upwards	61	34	27	29	151	104	66	43	65	278	165	100	70	94	429
	Under 1 year ...	32	25	19	16	92	24	20	13	16	73	56	45	32	32	165
	1—5 years ...	15	24	18	11	68	14	13	11	9	47	29	37	29	20	115
	Zymotics (7) ...	10	11	17	11	49	5	9	9	6	29	15	20	26	17	78
	Rate	1·1	1·2	1·9	1·2	1 3	0·4	0·6	0·6	0·4	0·5	0·5	0·8	1·1	0·7	0·8
	Small Pox ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Measles	1	3	6	1	11	1	...	3	1	5	2	3	9	2	16
	Scarlet Fever ...	...	...	...	2	2	...	...	1	2	3	...	...	1	4	5
	Whooping Cough ...	5	2	5	1	13	...	4	1	...	5	5	6	6	1	18
	Diphtheria ...	...	1	1	1	3	2	1	...	1	4	2	2	1	2	7
	Enteric Fever ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Diarrhœa ...	4	5	5	6	20	2	4	4	2	12	6	9	9	8	32
	Influenza ...	4	2	...	...	6	8	2	...	3	13	12	4	...	3	19
	Phthisis ...	14	20	11	6	51	22	16	4	8	50	36	36	15	14	101
	Respiratory Diseases	68	32	15	21	136	70	40	15	34	159	138	72	30	55	295
	Uncertified ...	...	...	...	...	...	1	1	...	...	2	1	1	...	...	2
	Inquests ...	15	25	4	11	55	12	13	5	10	40	27	38	9	21	95
Deaths in Public Institutions	General Hospital											63	80	59	65	267
	Borough Infectious Hospital											...	...	1	4	5
	Other Institutions											5	4	10	4	23
Non-residents in the Borough (excluded from our Tables)												49	53	44	38	184
Borough Residents dying outside (included in our Tables)												70	54	40	35	199

Table No. 7.

DEATHS in the Sub-Districts during 1917, classified according to Ages and Diseases.

DISEASES.	EAST SUB-DISTRICT.										WEST SUB-DISTRICT.									
	All ages	AGES.									All ages	AGES.								
		0—	1-	2-	5-	15-	25-	45-	65-	75-		0—	1-	2-	5-	15-	25-	45-	65-	75-
ALL CAUSES	586	92	30	38	26	26	74	149	84	67	686	73	23	24	22	27	76	163	139	139
1 Enteric Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2 Small Pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3 Measles	11	1	3	7	..	..	..	..	..	..	5	..	3	1	1	..	..	..	..	..
4 Scarlet Fever	2	..	..	..	2	..	..	..	..	..	3	..	1	2	..	..	..	..	..	..
5 Whooping Cough ..	13	3	3	7	..	..	..	..	..	..	5	1	2	2	..	..	..	..	..	..
6 Diphtheria and Croup ..	3	1	..	2	..	..	..	..	..	..	4	..	..	2	2	..	..	..	..	..
7 Influenza	6	..	..	..	..	..	2	3	1	..	13	..	..	1	..	1	1	1	5	4
8 Erysipelas	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..
9 Phthisis	51	..	..	1	2	11	25	12	..	..	50	..	1	1	..	8	22	18	..	..
10 Tuberculous Meningitis ..	5	1	..	2	2	..	..	..	..	..	5	..	1	1	2	..	1	..	..	..
11 Other Tuberculosis ..	5	..	1	2	1	..	1	..	..	..	9	..	2	2	2	..	3	..	..	..
12 Cancer, malignant disease ..	51	..	..	..	..	2	4	30	13	2	51	..	..	..	..	1	3	27	18	2
13 Rheumatic Fever ..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14 Meningitis	8	..	4	..	2	1	..	1	..	..	4	1	1	..	1	1	..	..	..	..
15 Organic Heart Disease ..	40	..	..	1	2	5	8	17	6	1	55	..	..	..	..	1	10	24	17	3
16 Bronchitis	83	13	8	1	1	..	5	23	17	15	94	16	3	2	1	1	3	18	27	23
17 Pneumonia	51	5	4	5	5	1	8	15	6	2	59	5	4	1	2	1	4	17	10	15
18 Other diseases of respiratory organs	2	..	..	1	..	..	..	1	..	..	6	..	..	1	3	..	..	..	..	2
19 Diarrhœa	20	15	3	2	..	..	..	..	..	..	12	3	2	1	..	..	..	1	2	3
20 Appendicitis	1	..	..	..	..	..	1	..	..	..	4	..	..	..	2	2	..	..	..	..
21 Cirrhosis of Liver ..	4	..	..	..	..	..	2	2	..	..	5	..	..	..	..	..	2	3	..	..
21A Alcoholism	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
22 Nephritis	13	..	..	..	..	..	3	6	2	2	17	..	..	..	..	1	5	9	2	..
23 Puerperal Fever ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24 Other accidents and diseases of Pregnancy and Parturition	2	..	..	..	..	..	2	..	..	..	1	..	..	..	..	..	1	..	..	..
25 Congenital Debility and Malformation, including Premature Birth ..	39	38	..	1	..	..	..	..	..	..	36	36	..	..	..	..	..	..	..	..
26 Violent Deaths, excluding Suicide	30	1	1	5	6	3	2	6	4	2	17	..	1	1	4	2	4	1	1	3
27 Suicide	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
28 Other Defined Diseases ..	136	14	3	1	2	2	10	28	33	43	225	11	2	6	2	8	16	39	57	84
29 Diseases ill-defined or unknown	7	..	..	..	..	1	..	4	2	..	5	..	..	..	..	..	1	4	..	..

Table No. 7b. (TABLE III, L.G.B.)

Deaths in the Borough during 1917 *classified according to Ages and Diseases.*

Causes of Death.	ALL AGES	Under 1 year	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 and upwards	Total Deaths in Institutions in the District.
All Causes { Certified ..	1270	165	53	62	48	53	150	312	427	295
All Causes { Uncertified	2	..	..	..	..	..	..	..	2	..
1 Enteric Fever	..	..	..	..	..	..	..	..	..	..
2 Small Pox	..	..	..	..	..	..	..	..	..	..
3 Measles	16	1	6	8	1	..	..	..	..	2
4 Scarlet Fever	5	..	1	2	2	..	..	..	..	5
5 Whooping Cough	18	4	5	9	..	..	..	..	..	..
6 Diphtheria and Croup.. ..	7	1	..	4	2	..	..	..	..	10
7 Influenza	19	..	..	1	..	1	3	4	10	..
8 Erysipelas	1	..	..	..	..	..	..	1	..	..
9 Phthisis	101	..	1	2	2	19	47	30	..	6
10 Tuberculous Meningitis ..	10	1	1	3	4	..	1	..	..	2
11 Other Tuberculous Diseases ..	14	..	3	4	3	..	4	..	..	8
12 Cancer, malignant disease ..	102	..	..	..	..	3	7	57	35	27
13 Rheumatic Fever	1	..	..	..	1	..	..	..	..	1
14 Meningitis	12	1	5	..	3	2	..	1	..	4
15 Organic Heart Disease.. ..	95	..	..	1	2	6	18	41	27	12
16 Bronchitis	177	29	11	3	2	1	8	41	82	2
17 Pneumonia..	110	10	8	6	7	2	12	32	33	21
18 Other Diseases of Respiratory Organs	8	..	..	2	3	..	..	1	2	1
19 Diarrhœa	32	18	5	3	..	..	..	1	5	2
20 Appendicitis	5	..	..	..	2	2	1	..	..	18
21 Cirrhosis of Liver	9	..	..	..	..	..	4	5	..	4
21a Alcoholism	1	..	..	..	..	..	..	1	..	..
22 Nephritis	30	..	..	..	..	1	8	15	6	6
23 Puerperal Fever	..	..	..	..	..	..	..	..	..	1
24 Other accidents and diseases of Pregnancy and Parturition	3	..	..	..	..	..	3	..	..	4
25 Congenital Debility & Malformation including Premature Birth..	75	74	..	1	..	..	..	..	..	7
26 Violent Deaths, excluding Suicide	47	1	2	6	10	5	6	7	10	56
27 Suicide	1	..	..	..	..	..	1	..	..	2
28 Other defined diseases	361	25	5	7	4	10	26	67	217	94
29 Diseases ill-defined or unknown ..	12	..	..	..	..	1	1	8	2	..
14 (*a*) Cerebro-Spinal Meningitis ..	..	..	..	..	..	1	..	..	..	2
28 (*a*) Poliomyelitis	..	..	..	..	..	..	..	..	..	..
(*a*) *(included above)*										

Table No. 9. (INCLUDES TABLE I, L.G.B.)

Vital Statistics during 1917 *and* 36 *previous years.*

Year.	Population estimated to middle of each year.	Births.		Deaths belonging to the District.				Total Deaths in Public Institutions in the District.	Deaths of Non-residents registered in the District.	Deaths of Residents occurring outside the District.	Total Deaths Registered in the District.	
				Under 1 year of age.		At all Ages.						
		No.	Rate.	No.	Rate per 1,000 Births	No.	Rate.				No.	Rate
1	2	3 & 4	5	10	11	12	13		8	9	6	7
*1881	75,932	2769	35·9	410	148	1552	20·1	272	96	..	1648	21·3
Averages for years 1881-1890	78,992	2738	34·6	452	165	1638	20·7	306	113	..	1750	22·1
Averages for years 1891-1900	88,011	2977	33·9	582	195	1866	21·2	379	137	..	2002	22·8
Averages for years 1901-1910	94,728	2782	29·4	385	138	1485	15·7	†282	132	99	1518	16·0
1911	95,357	2415	25·4	331	137	1515	15·9	263	153	186	1482	15·6
1912	95,472	2439	25·9	211	87	1280	13·5	269	150	184	1246	13·1
*1913	95,587	2590	26·7	334	129	1545	15·9	308	185	189	1541	15·9
1914	95,702	2610	27·4	295	113	1495	15·7	284	163	217	1441	15·1
1915	95,817	2381	24·9	317	133	1623	17·0	270	150	222	1551	16·2
1916	95,933	2298	24·0	238	104	1391	14·5	289	179	207	1363	14·3
1917	96,048	2009	21·0	165	82	1272	13·3	294	184	199	1257	13·1

* These years contain 53 weeks. Area of District in Acres, 3,525.

CENSUS, 1911, Total Population at all ages, 95,328.

Institutions within the Borough receiving sick and infirm persons from without the Borough—The Wolverhampton and Staffordshire General Hospital; The Wolverhampton Borough Hospital; the Wolverhampton and Midland Counties Eye Infirmary; the Wolverhampton and District Hospital for Women; the Queen Victoria Nursing Institution.

† Near the end of 1903 the Workhouse (receiving cases from a district nearly double the size of the Borough) was removed outside the Borough.

Table No. 10.

Year.	EAST SUB-DISTRICT. Population estimated to middle of each year. a	Births. Number. b	Births. Rate.	Deaths. At all ages. Number. c	Deaths. At all ages. Rate.	Deaths. Under 1 year of age. Number. d	Deaths. Under 1 year of age. Rate per 1,000 Births regis'd.	WEST SUB-DISTRICT. Population estimated to middle of each year. a	Births. Number. b	Births. Rate.	Deaths. At all ages. Number. c	Deaths. At all ages. Rate.	Deaths. Under 1 year of age. Number. d	Deaths. Under 1 year of age. Rate per 1,000 Births regist'd
1884	38,748	1382	35·8	981	25·4	275	199	39,146	1309	33·5	753	19·3	231	176
Averages for years 1884-1890	38,876	1418	36·4	916	23·5	263	186	41,098	1304	31·7	748	18·2	191	154
Averages for years 1891-1900	39,621	1510	38·2	991	25·3	326	216	48,326	1467	30·4	864	17·9	256	174
Averages for years 1901-1910	39,445	1255	31·8	721	18·3	202	160	55,250	1527	28·0	764	13·8	183	119
1911	38,211	1081	28·4	681	17·9	160	148	57,150	1317	23·1	834	14·6	171	130
1912	37,977	1095	28·9	627	16·6	109	100	57,520	1316	23·0	653	11·4	102	78
*1913	37,744	1128	29·4	756	19·7	188	167	57,893	1449	24·6	789	13·4	146	101
1914	37,513	1212	32·4	698	18·4	163	134	58,268	1373	23·6	797	13·7	132	96
1915	37,283	1064	28·6	769	20·7	179	126	58,645	1298	22·2	854	14·6	138	106
1916	37,055	1003	27·2	645	17·4	124	124	59,025	1295	22·0	746	12·7	114	88
1917	36,828	920	25·1	586	16·0	92	100	59,407	1089	18·4	686	11·6	73	67
CENSUS, 1911	..	..	..	..	..	38,270		..	..	..	..	..	57,058	

At the beginning of 1903 the dividing line between the Sub-Districts was altered; the alteration affects the 1901 census by transferring 418 from the West population to the East.

* These years contain 53 weeks.

Chief Sanitary Inspector's Summary

OF

The Main Routine Work of the Several Inspectors.

FOR THE YEAR, 1917.

The Columns show (1) the previous 5 years' average figures; (2) and (3) last and present year's figures, respectively.

		(1)	(2)	(3)
Public Complaints or Requests Received:				
In respect of Sanitary defects ...		656	578	562
,, ,, Closet pans or ashes ...		461	161	372
Infectious Disease Enquiries Made ...		1724	2039	2211
Inspections and Re-inspections Recorded		47444	38895	38160
Sanitary Defects Reported ...		5258	3710	4104
Notices Issued	"Intimations" ...	2169	1812	2038
	Statutory ...	1100	759	861
Sanitary Improvements Recorded ...		10869	5980	4077
Total Premises Improved ...		4180	2853	2239
Disinfection	Rooms, &c. ...	476	415	502
	Articles removed for ...	4188	2917	4756
Diseased or Unsound Food Destroyed	Tons	44	56	62
	Cwts.	10	18	17
Canal Boats	Examined for Registration	8	5	1
	Inspections ...	305	213	34
	Contraventions ...	92	45	6
	Notices issued ...	63	32	6
Veterinary Inspection of Cows ...		1073	980	1030
Prosecutions		7	6	26